## MODIFIED Δ5-ANDROSTENES HAVING IMPROVED BIOAVAILABILITY

## **ABSTRACT OF THE DISCLOSURE**

The hormone 7-keto-dehydroepiandrosterone (7-keto-dehydroepiandrosterone; Δ5-androstene 3β-hydroxy, 17-one; referenced as "7-keto-DHEA") is modified at the 3<sup>rd</sup> carbon, the 17<sup>th</sup> carbon, or at both 3<sup>rd</sup> carbon and the 17<sup>th</sup> carbons with one or more of the following: tetrahydropyranyl (both mono and di-ethers), 1-methoxycyclopentane (both mono and di-ethers), cyclopent-1'-enyl (both mono and di-ethers), or combinations thereof. This modification improves oral bioavailability and plasma half-life in humans and mammals.